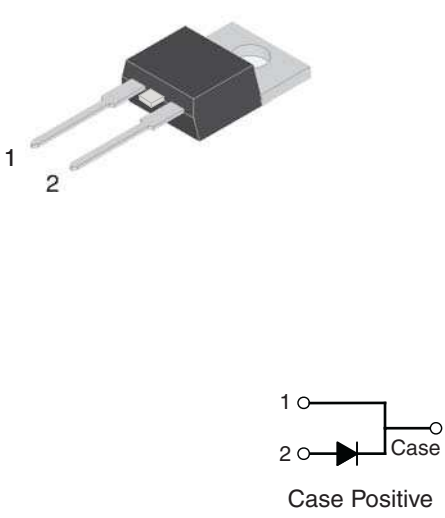
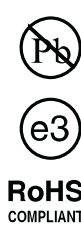


8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

<p>TO-220AC</p>  <p>1 2</p> <p>Case Positive</p>	<p>Voltage 200 to 600 V</p>	<p>Current 8.0 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Ultrafast recovery time for high efficiency • Low power losses • Low forward voltage drop • High forward surge current capability • Solder dip 260°C, 10s / 16" (4.06 mm) from case • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		 <p>RoHS COMPLIANT</p>
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: TO-220AC. Epoxy meets UL 94V-0 flammability rating. • Polarity: As marked on the body. • Mounting Torque: 5 in-lbs maximum. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. 		
	<p>TYPICAL APPLICATIONS</p> <p>Used in high frequency rectifier of switching mode power supplies, inverters, freewheeling diodes, dc-to-dc converters, and other power switching application.</p>		

Maximun Ratings and Electrical Characteristics at 25°C

		MUR820	MUR840	MUR860
V_{RRM}	Peak Recurrent Peak Reverse Voltage (V)	200	400	600
V_{RMS}	Maximum RMS Voltage (V)	140	280	420
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600
$I_{F(AV)}$	Maximum Average Forward Rectified Current 9.5mm Lead Lenght (See Fig. 1)	8.0 A		
I_{FSM}	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	100 A		
T_{rr}	Maximum Reverse Recovery Time From $I_F = 0.5 A$; $I_R = 1 A$; $I_{RR} = 0.25 A$	25 nS	50 nS	
T_j	Operating temperature range	- 65 to + 175 °C		
T_{stg}	Storage temperature range	- 65 to + 175 °C		

Electrical Characteristics at Tamb = 25 °C

V_F	Max. Instantaneous Forward Voltage @ 8.0 A (Note 2)	0.975 V	1.3 V	1.7 V
I_R	Max. DC Reverse Current at @ $T_c = 25\text{ °C}$ Rated DC Blocking Voltage @ $T_c = 150\text{ °C}$	5.0 μ A 250 μ A		
R_{thj-C}	Typical Thermal Resistance (Note 1)	3.0 °C/W	2.0 °C/W	

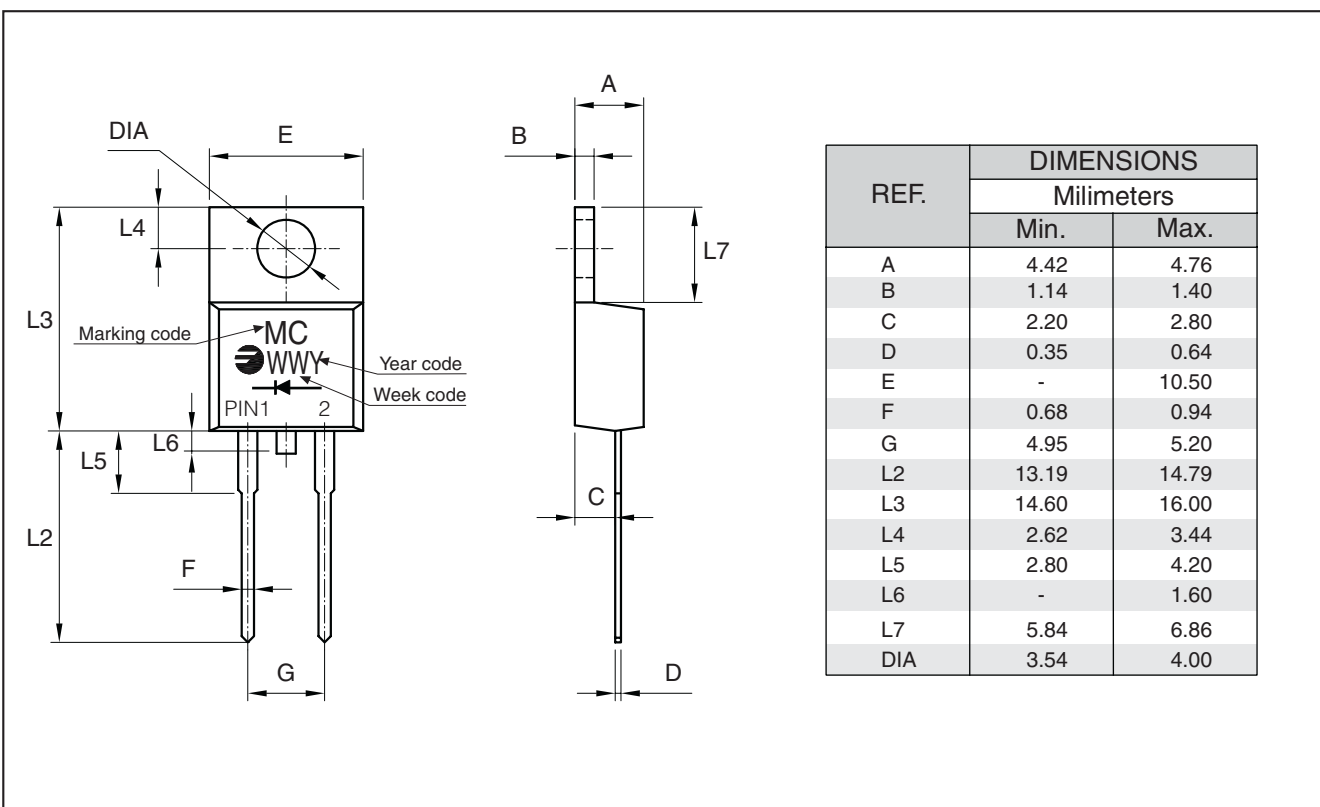
Note: 1. Mounted on Heatsink Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.
2. Pulse test: 300 μ s pulse width, 1% duty cycle.

8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

Ordering information

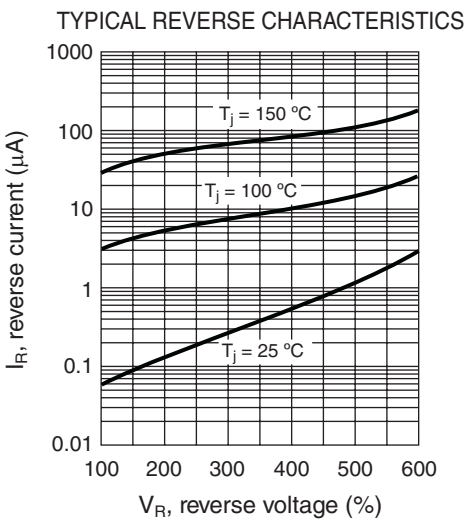
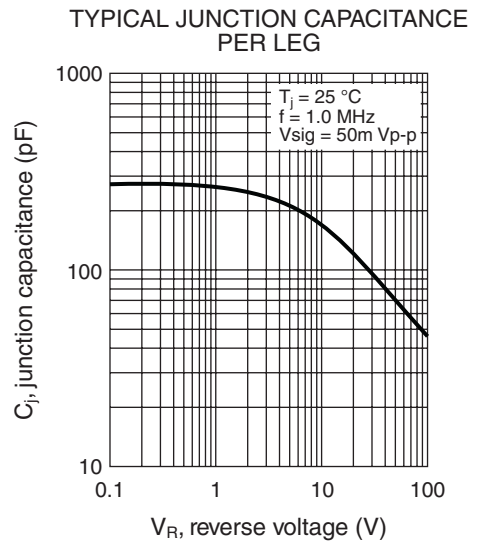
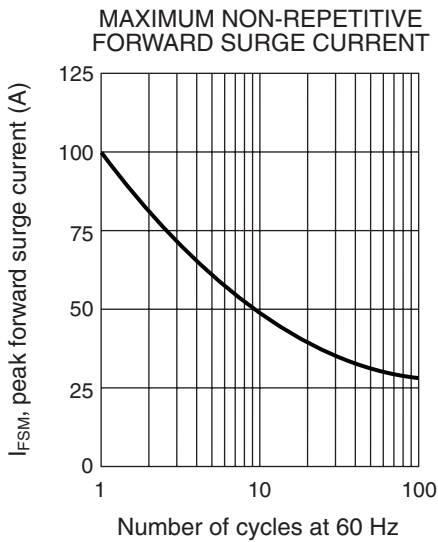
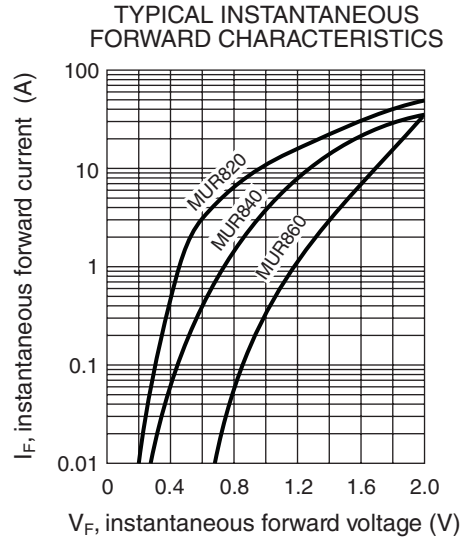
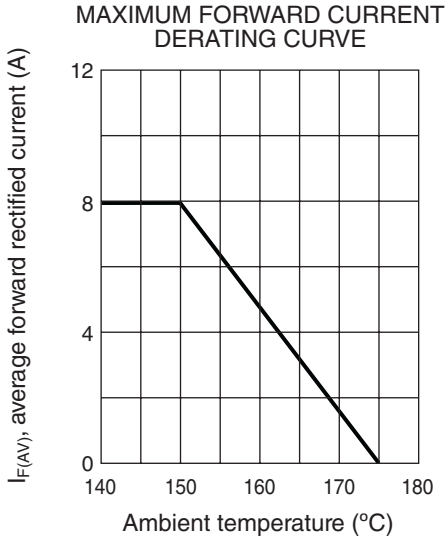
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
MUR820 00TUC	TU	TUBE	2,000	1.90

Package Outline Dimensions: (mm) TO-220AC



8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)



8.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

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